

SECRET

MONTHLY REPORT

Contract

25X1

PAR 217

31 Mar 65

SUBJECT: Optimization of Lasers

TASK/PROBLEM

1. Explore the production of 0.53 micron (blue-green) laser radiation by harmonic doubling in KDP and ADP crystals.

DISCUSSION

2. To provide information for a possible comparison of the harmonic doubling system with other visible light laser systems, reading is in progress both on a NASA bibliography and on material selected by the contractor's technical information service. There are reports of several CW visible light units in the 20 - 30 milliwatt output range and one unit whose output is measured in watts.

3. No work has been done on the beam structure study during this month.

PLANNED ACTIVITY

4. In the next month, we expect to:

a. Continue reading of the selected material.

Declass Review by NIMA/DOD

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